



Maryland Department of Environment
Water Management Administration
Compliance Program - Eastern Division
407 Race St, Cambridge, MD 21613
410-901-4020

Field Inspection Report by: Michele Burroughs

Media Type(s): NPDES Municipal Minor Surface Water

Inspection Date: May 9, 2011

Site Name: Assateague Island-National Seashore HQ WWTP

Facility Address: 7206 National Seashore Lane, Berlin, MD 21811

County: Worcester County

NPDES Municipal Minor Surface Water

Permit / Approval Numbers: 10DP2530/MD0021091

Site Status: Active

Site Condition: Noncompliance

Contact(s):

Steve Main - Superintendent

David Demillo - Operator

Megan Phaller – Driver

Recommended Action: Continue Routine Investigation

Inspection Reason: Routine Scheduled, Initial Quarterly

Evidence Collected:

Visual Observation

Inspection Findings:

A. Permit Verification

The facility holds State Discharge Permit 05-DP-2530, NPDES Permit MD0021091, which became effective July 1, 2006 and expires June 30, 2011. Per Mahendra Chawla, the draft permit is being reviewed. An announcement of the draft permit will be published in the local papers for a 30 day comment period.

B. Records

March 2011 - The DMR shows noncompliance. The laboratory data sheets and chains of custody were available and complete. The total phosphorus monthly average loading was reported as 0.0 lbs/day, the weekly average loading as 0.011 lbs/day, the monthly average concentration as 0.3 mg/l and the weekly average concentration as 0.54 mg/l with 1 excursion. The average daily flow was reported as 0.002 MGD. On 3/10/2011, the nitrate plus nitrite concentration of 1.8 mg/l was reported on the MOR as 1.18 mg/l. On 3/10, the total nitrogen concentration

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of 2.68 mg/l was reported on the MOR as 2.06 mg/l. On 3/31, the nitrate concentration of 0.62 mg./l was reported as 0.63 mg/l.

February 2011 - The DMR shows noncompliance. The laboratory data sheets and chains of custody were available and complete. The total nitrogen monthly average loading was reported as 0.0 lbs/day, the weekly average loading as 0.062 lbs/day, the monthly average concentration as 4.3 mg/l and the weekly average concentration as 10.3 mg/l with 3 excursions. The average daily flow was reported as 0.001 MGD. The 2/3/2011 nitrate result of 9.55 mg/l was transcribed onto the MOR as 9.59 mg/l, and was therefore used in the DMR calculations.

January 2011 - The DMR shows noncompliance. The laboratory data sheets and chains of custody were available and complete. The total nitrogen monthly average loading was reported as 0.0 lbs/day, the weekly average loading as 0.070 lbs/day, the monthly average concentration as 2.7 mg/l and the weekly average concentration as 3.4 mg/l with 2 excursions. The average daily flow was reported as 0.002 MGD.

C. Maintenance and Operations

The system consists of a bar screen, followed by vibratory separator, an equalization tank, anoxic tank, an aerobic tank, a second anoxic tank and a reaeration tank. The effluent from the reaeration tanks is filtered through two parallel basket filters prior to treatment by 4 Berghof ultrafilters. The permeate from the ultrafilters is disinfected with 2 UV units, followed by a 2000 gallon vertical tank.

Mr. Main stated that the vibratory separator has operated well since installation and appears to be permanent. Mr. Main stated that the National Park Service has continued to retain SOS, Inc. to assist with the plant operations on an as-needed basis. Recommended changes which have been implemented include replacement of the air mixers in the anoxic tanks with 2 Gould's pumps with a 45 degree angle, and the addition of half a bag of soda ash to the equalization tank. The dissolved oxygen concentration in the aerobic tank was 2.54 mg/l and the pH was 8.15 s.u.. Mr. Main stated that they are adding sodium hydroxide, poly aluminum chloride, and Micro cg as a carbon source. A new concrete tank has been added outside the building for the storage of the wasted product. Mr. Main stated that they decant the free water from the sludge tank to the septic tank to which the tanker truck discharges and a blower has been added to the in-ground septic tank. Mr. Main stated that 1 load of sludge has been transported to the Berlin WWTP.

The facility has a new operator, Mr. David Demillo. Mr. Demillo holds a WW-5A operator's license and superintendent license 6400. The facility is working to get the license number registered for Assateague Island National Seashore. Mr. Main stated that he will be retiring in 16 days.

D. Effluent Receiving Water

The facility was not discharging at the time of the inspection.

E. Sampling

The facility was not discharging at the time of inspection and therefore samples were not collected during the inspection.

F. Stormwater Pollution Prevention Plan

This facility is not required to develop nor implement a stormwater pollution prevention plan.

G. Corrective Actions

1. The permittee is advised that the facility should operate the facility in compliance with permit requirements, including but not limited to compliance with discharge permit limits.

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2. The permittee is reminded that the flow meter should be calibrated on an annual basis.
3. The permittee is reminded of the necessary changes to the Monthly Operating Report (MOR) due to changes in the definition of weekly average (Sunday to Saturday) in the new permit.

NPDES Municipal Minor Surface Water - Inspection Checklist

<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
1. Does the facility have a discharge permit? [Environment Article §9-323a(1-3)]	No Violations Observed	
2. Is the discharge permit current? Has facility applied for renewal? [Environment Article §9-328a(1)]	No Violations Observed	
3. Is the facility as described in the current permit? Are treatment processes as described in the current permit? [COMAR 26.08.04.01.01B(4)]	No Violations Observed	
4. Has notification been submitted about any new, different or increased discharges? [40 CFR Part 122 Subpart C Section 122.42.b(1-3)]	No Violations Observed	
5. Is the number and location of discharge points as described in the discharge permit? [Environment Article §9-3314]	No Violations Observed	
6. Has permittee submitted correct name and address of receiving waters? [40 CFR 122.21.j(3)]	No Violations Observed	
7. Is the permittee meeting the compliance schedule per permit requirements? [COMAR 26.08.04.02-1.02-1A(3)]	Not Applicable	
8. Has the operator or superintendent been certified by the Board in the appropriate classification for the facility? [COMAR 26.06.01.05A(1)]	No Violations Observed	
9. Are adequate records being maintained for the sampling date, time, and exact location; analysis dates and times; individual performing analysis; and analytical results? [COMAR 26.08.04.03.03B(3)(a, b, c, e)]	No Violations Observed	
10. Are adequate records being maintained for the analytical methods/techniques used? [COMAR 26.08.04.03.03B(3)(d)]	No Violations Observed	
11. Does the permittee retained a minimum of 3 years worth of monitoring records including raw data and original strip chart recordings; calibration and maintenance records; and reports? [COMAR 26.08.04.03.03B(1)]	No Violations Observed	
12. Is the lab and monitoring equipment being properly calibrated and maintained? Are they keeping records to reflect this? [Environment Article §9-3313]	No Violations Observed	
13. Is laboratory controls and appropriate quality assurance procedures properly operated and maintained? [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	

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14. Has the permittee submitted the monitoring results on the proper Discharge Monitoring Report form? [COMAR 26.08.04.03.03C(1)]	No Violations Observed	
15. Has the permittee submitted these results within the allotted time? [COMAR 26.08.04.03.03C(2)]	No Violations Observed	
16. Are discharge monitoring reports complete and reflect permit conditions? [COMAR 26.08.04.03B(3)]	No Violations Observed	
17. Is the facility being properly operated and maintained including:(a) stand-by power or equivalent provisions available, (b) adequate alarm system for power or equipment failure available, (c) all treatments units are in service, . [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	
18. Is sewage sludge managed correctly per permit requirements? [COMAR 26.04.06.03.03]	No Violations Observed	
19. Any by-pass since last inspection? Has permittee submitted notice of any by-pass? [40 CFR Part 122 Subpart C Section 122.41.m(4)(i)(C)]	No Violations Observed	
20. Any non-complying discharges experienced since last inspection? Has regulatory agency been notified? [40 CFR Part 122 Subpart C Section 122.41.l(6)]	Out of Compliance	See findings.
21. Have overflows occurred since the last inspection? [COMAR 26.08.10.02A]	No Violations Observed	
22. Has records of overflows been maintained at the facility for at least five years? [COMAR 26.08.10.06A-B]	No Violations Observed	
23. Are flow measuring devices properly installed and operated, calibration frequency of flow meter adequate, flow measurement equipment adequate to handle expected ranges of flow? [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	See findings.
24. Are discharge monitoring points adequate for representative sampling? Do parameters and sampling frequency meet the minimum requirements? Does the permittee use the method of sample collection required by the permit? [Environment Article §9-331(4)]	No Violations Observed	
25. Are analytical testing procedures approved by EPA? If alternate analytical procedures are used, proper approval has been obtained? [COMAR 26.08.01.02B(1)]	No Violations Observed	
26. Has the permittee notified the Department of the name and address of the commercial laboratory? [COMAR 26.08.04.03.03A(3)]	No Violations Observed	

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27. Were discharges observed at the authorized outfalls? Does the facility have any unauthorized discharges to waters of the State? [Environment Article §9-322]	Not Evaluated	
28. Does the discharges or receiving waters have any visible pollutants (oil sheen, grease, turbidity, foam, floating solids, color), odor, noncompliant DO concentrations, and/or noncompliant temperature ranges? [Environment Article §9-314b(1)]	No Violations Observed	
29. Were discharge samples collected? [Environment Article §9-261c(1)]	Not Evaluated	
30. Is the facility required to have a storm water pollution prevention plan? Has storm water pollution prevention plan been developed and implemented as required? Does storm water pollution prevention plan require modifications to prevent runoff of pollutants? [40 CFR Part 122 Subpart B Section 122.26.c(1)(I)(A-B)]	Not Applicable	
31. Are the permit conditions being met? [Environment Article §9-326a(1)]	Out of Compliance	See findings.

Inspector: _____
 Michele Burroughs

Received by: _____